

Agency: Prem Shamkub Dubey

Babbari to Yader Tola (KSHSY)

Schedule XLV - From 13th

to 14th

FINAL P.W.D.

E.E. R.W.D. W.M. - Arranged by DIVISION

Assistant Engineer R.W.D. - S.M. DIVISION

W.M. Sub - Division - Kuthumb

W.M. Sub - Division - Kuthumb

2525

Confirmed that this M.B. contains
10 (one hundred) pages by printers-
Machine and issued to Shri Babar-
Ram A.E. Now. work Sub-Dir.
Kutumba.

5/12/19
Executive Engineer
Rural Works Department
North Division Aurangabad

Schedule KLV - Form No. 134.

E.E. Aurangabad. Division.

A.E. Kutumba. Sub-Division.

MEASUREMENT BOOK.

2525

511217

Shri Babar Ram A.E. Kutumba.

Date of this entry _____

Date of last entry _____

मि. नं. १३४, भा. १

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>4th and final Bill</u>					
Name of work - M.H. 139 to B. Bhandari					
Yardar Tila Hama					
M.M. G.S. 4/2019-20					
Agreement No - 49 S.B.D/2019-20					
Agreement No - B 80 072.60 = 00					
Definitive - 10/12/2019					
Definitive - 09/12/2020					
Agency - Exm Shant Kumar					
Divedi					
Rate - 10 - 1/2 km for B.O. & R. H.					
Measure					
O/S.B. Construction					
(Up to 100 m)					
Construction - do -					
Obtained from borrow					
R/R - do - do - CI I					
Length up to 100 m 2100 m					
Atty. of form 216 Calculation Chart					
S.N	Chang	Diagram in m ²	Measurement in m ²	Length	Volume in m ³
1	0	6.027			
2	50	7.00	6.516	50	325.775 m ³
3	100	7.24	7.120	50	356.00 "
4	150	7.386	7.311	50	362.550
5	200	6.784	7.085	50	354.250
6	250	7.026	6.902	50	345.250
7	300	6.766	6.896	50	344.800
8	350	6.439	6.603	50	330.125
9	400	6.537	6.488	50	324.400

Continuation

2746.15 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
S. No. change in m	11	9m	Mean from	Length	Volume in m ³
		in m	in m	m	
			D. at g	-	2746.15 m ³
10	450	6.96	6.749	50	337.45"
11	500	6.856	6.909	50	345.625"
12	550	6.376	6.616	50	330.800"
12	600	6.515	6.446	50	322.225"
14	650	7.006	6.761	50	338.025"
15	700	7.074	7.040	50	352.000"
16	750	6.722	6.898	50	344.90"
17	800	7.182	6.952	50	347.600"
18	850	6.866	7.024	50	351.20"
19	900	3.789	5.328	50	266.375"
20	950	2.232	3.011	50	150.525"
21	1000	2.324	2.278	50	118.900"
22	1050	2.081	2.203	50	110.125"
23	1100	2.319	2.200	50	110.00
24	1150	2.289	2.304	50	115.20
25	1200	2.318	2.304	50	115.175"
26	1250	2.328	2.322	50	116.150
27	1300	2.394	2.361	50	118.050
28	1350	2.495	2.445	50	122.225"
29	1385	2.569	2.532	35	88.62
					7242.17 m ³
Left for cut	① G.S.B.	783.93 m ³			(-) 4277.30 m ³
	② W.B.M.	384.08 m ³			2964.87 m ³
	③ R.C.C.	301.11 m ³		Left 1000 m	519.98 m ³
	④ S.45 grad	2057.88			
	⑤ Earthwork	750.30 m ³		Left 1000 m	966.87 m ³
					4277.30 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Q. 8 Construction of ground					
8th. 2nd. - - - - -					
G.S.B. grading 1-1/2 ft					
Physical & mathematical					
BT Post	5	20m	4.10m		$= 61.5 \text{ m}^2$
	4	20m	1.5m		$= 34.0 \text{ m}^2$
	10	20m	1.15m		$= 124.5 \text{ m}^2$
	2	20m	4.20m		$= 252 \text{ m}^2$
	6	20m	4.10m		$= 738 \text{ m}^2$
	1	24m	4.10m		$= 492.40$
					3488.40 m^2
Volume					$= 3488.40 \text{ m}^2 \times 0.20 \text{ m} = 697.68 \text{ m}^3$
Area of B.T. - Qty of B.T. & B.T. (B)					
Qty of B.T. Post					$\frac{680 \cdot 40 \text{ m}^2}{4 \cdot 10 \text{ m}^2}$
					688.50 m^3
Total Qty					$= 759.25 \text{ m}^3$
					$(-) 688.50 \text{ m}^3$
					71.25 m^3
Add					
Qty of B.T. & B					
For (2) & (4) (B)					$= 15.00 \text{ m}^3$
					86.25 m^3 (D)
So Total Qty of G.S.B. (B)					
= Area of (B)					$= 697.68 \text{ m}^3$
					(D) $= 86.25 \text{ m}^3$
					783.93 m^3
(3)/9 Gravelly layering					
Gravelly and Compaction					
-d- W.B.M. of 3rd & 4th					
Qty of gravelly layering					
BT Post	5	20m	3.80m		$= 570.00 \text{ m}^2$

Continuation

Sch. XLV-Form No. 134				Contents of area
Particulars	Details of actual measurement			
	No.	L	B	D
			B.S.	570.0000
	4x	3.0m x 4.5m (sq)		534.00 "
	10x	3.0m x 2.0m		1140.00 "
	2x	3.0m x 2.85m		231.00 "
	6x	3.0m x 2.85m		621.00 "
	1x	2.4m x 3.75m		90.00 m ²
			(R)	3249.00 m ²
Volume =	3249.00 m ² x 0.075 m			243.68 m ³
P.C.C. L-1				(+)
	1x	9.60m x 2.20m		21.120 m ²
	1x	6.20m x 1.80m		11.16 m ²
	1x	6.50m x 1.70m		11.05 "
	1x	4.5m x 3.00m		135.00 "
Main road	1x	5.8m x 3.75m		217.50 "
	1x	41m x 5.50 + 7.00 + 9.00 + 7.50 + 6.00		
			5	287.00 m ²
	2x	3.0m x 3.85m		231.00 "
	1x	2.2m x 4.50 + 4.78		135.08 "
			2	
	6x	3.0m x 3.90 + 3.80		693.00 "
	1x	2.6m x 6.70 + 4.60 + 3.80		
			3	130.88 m ²
			(S)	1872.91 m ²
Volume =	1872.91 m ² x 0.075			140.46 m ³
Total Qty of W.B.M. (Q)				(Q)
= Vol No (1)				243.68 m ³
+ Vol No (Q)				140.46 m ³
				384.08 m ³
① Including 2% free working fill				

(i) Reference P.V.M. - 576

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Qty as shown at the A.B.					
For M.B. (11) =					32.49 m ²
=					32.34 m ²
(13) Const. of sub-grade					
and E.R. m. shoulder					
— d — d B.I.					
Adjust. of G.S.B.					
2x27x30m x 1.5m x 0.2m =					456.00 m ³
2x1x30m x 1.5m x 0.2m =					12.00 m ³
At 1.5m					
W.B. 2x27x30m x 1.4m x 0.08m =					170.10 m ³
2x1x20m x 1.4m x 0.08m =					4.20 m ³
At 1.5m					
P.C. 2x2x30x0.6m x 0.25m =					18.00 m ³
2x4x30x1.0m x 0.25m =					60.00 m ³
					750.30 m ³
(27) Finishing on road					
W.B. — d — B.I.					
of area 600m ²					
2x3.6m x 0.4m =					2.88 m ²
4x3.6m x 0.6m =					8.64 "
4x0.4m x 0.6m =					0.96 "
					12.48 m ²
(32) Finishing of road					
W.B. — d — d — B.I.					
of area 1000m ²					
2x6.15x0.4m =					4.92 m ²
2x6.15x0.6m =					14.76 "
4x0.4m x 0.6m =					0.96 m ²
					20.64 m ²
(15) Finishing and paving					
R.C. M.S. ground					
K.M. Stone — d —					
— d — B.I.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(i) ordinary K.M. Stone -					
				$1 \times 2 = 2 \text{ Nos}$	
(ii) 200mm Stone ch.					
				$1 \times 6 = 6 \text{ Nos}$	
(17) ordinary New Work					
and figure - d. Bt					
				$2 \times 44 = 88.00 \text{ labour}$	
(18) ordinary cast iron					
boundary Pile/ Guard					
Path of Road 5m					
- do - d. Bt				$1 = 24 \text{ Nos}$	
(19) ordinary and laying of					
- d. Informative Sign					
Board - d. Bt					
(19) 600mm equivalent Tangle - 12 Nos					
(ii) 800mm x 600mm rectangular					
Sign Panel - d. 1 x 4 = 4 Nos					
(iii) 600mm x 450mm rectangular					
Sign Board d. Bt					
				$1 \times 4 = 4 \text{ Nos}$	
(20) ordinary and laying					
of flat asphalt - d.					
- d. Road Marking d. Bt					
as per standard					
				$2 \times 27 \times 30 \text{ m} \times 0.1 \text{ m} = 162.00 \text{ m}^2$	
				$2 \times 1 \times 20 \text{ m} \times 0.1 \text{ m} = 4.00 \text{ m}^2$	
				$2 \times 4 \times 3 \text{ m} \times 0.1 \text{ m} = 2.40 \text{ m}^2$	
				$4 \times 4 \times 1.0 \text{ m} \times 0.1 \text{ m} = 1.60 \text{ m}^2$	
					<u>170.00 m²</u>

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(21) clearing and leveling half of plot - do Road marking on the section - do I					
ridges	2x	1.5x30m x 0.1m			= 90.00m ²
	2x	4x3m x 0.1m			= 2.40m ²
	4x	4x1.0m x 0.1m			= 1.60m ²
					<u>94.00m²</u>
(22) planting of tree by the road side - do - do - do I					
	2x	42			84 Nos
	1x	1			<u>1 Nos</u>
					85 Nos
Plant 2x 10x12 2x 2x2					
Abstract of cult					
(i) clearing and leveling (ii) planting of tree - do - do I Qty of T.M.B. R. (20) = 2 Nos					
@ 42.87 = 45 per ch R. 8575 =					
(ii) planting of tree Qty of T.M.B. R. (20) = 5 Nos					
@ 19.52 = 85 per ch R. 9764 =					
(23) clearing and leveling road land - do - do I Qty of T.M.B. R. (13) = 0.84 hec					
@ 49739 = 47 hec R. 41781 =					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
③ Excavation of way & box cutting — d — d — 24 I					
Qty of T.M.B. (14)					
= 15.00 M ³					
④ 82 = 0.1 / M ² - R - 1230 = 0					
④ Construction of embankment of — d — d — 24 I					
Qty of T.M.B. (14)					
= 9.00 M ³					
⑤ 27 = 9.8 / M ² - R - 252 = 0					
⑤ Construction of embankment of borrow pits — d — d — 24 I					
Length 100 M					
Qty of T.M.B. (18)					
= 96.87 M ³					
⑥ 132 = 5.1 / M ² - R - 128168 = 0					
⑥ Construction of embankment of — d — d — 100 M — 24 I					
Qty of T.M.B. (18)					
= 1998.08 M ³					
⑦ 187 = 23 / M ² - R - 374273 = 0					
⑦ Const. of sub-grade and Erection of 11 d/c — d — d — 100 M — 24 I					
Qty of T.M.B. (14)					
205763 M ³					
" " 750 30 M ³					
280793 M ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
AP 01/2807. 03M ²					
① 180 = 60M ² - R					532384 = 0
② 2000 - value of 2000					
1800 - 1800 - 1800					
2000 - 2000 - 2000					
③ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
④ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑤ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑥ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑦ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑧ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑨ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑩ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑪ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑫ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑬ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑭ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑮ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑯ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑰ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑱ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑲ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
⑳ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉑ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉒ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉓ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉔ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉕ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉖ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉗ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉘ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉙ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉚ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉛ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉜ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉝ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉞ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㉟ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊱ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊲ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊳ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊴ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊵ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊶ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊷ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊸ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊹ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊺ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊻ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊼ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊽ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊾ 2000 - 2000 - 2000					
2000 - 2000 - 2000					
㊿ 2000 - 2000 - 2000					
2000 - 2000 - 2000					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
④ Hydraulic T.M. B.P. No. (23)					
= 3236.00 m ²					
⑤ 2.30 = 80 m ² - R					746869 = ∞
⑬ Construction of m- reinf. of. Reinforcement concrete for masonry - do - do - R.I.					
Hydraulic T.M. B.P. No. (21)					
= 301.11 m ²					
⑥ 6687 = 0.8/m ² - R					2013547 = ∞
⑮ Linking and forming R.C.C. M.S. for in K.M. - last - do - R.I.					
① Ordinary K.M. last (hereafter)					
Hydraulic T.M. B.P. No. (23)					
= 2 M.S.					
⑦ 2266 = 69/each R					4533 = ∞
⑪ Linking 20m. R.C.C. - Stone - do - R.I.					
Hydraulic T.M. B.P. No. (23)					
= 6 M.S.					
⑧ 6517 = 69/each R					3910 = ∞
⑥ Linking and forming of Typical M.M. G.S. 4 in forming sign R.C.C. - do - do - R.I.					
Hydraulic T.M. B.P. No. 15, 21					
2 No. to P.N.B. = 4 M.S.					
⑨ 10032 = 0.3/each R					20064 = ∞

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(17) Draining Trench and figure - d-1515 Qty in d-1515 P ₂ No (23) = 82 on d-1515 at 52/00/1515/1515 R. 46 = 0					
(18) Draining and Draining Reinforced Draining Quant. of Reinforced Draining - d-1515 Qty in d-1515 P ₂ No (23) = 2476					
530 = 62/00/1515 R. 12785 = 0					
(19) Draining and Draining of section of platform - d-1515 (i) 600mm x 450mm Qty in d-1515 P ₂ No (23) = 1276					
4044 = 32/00/1515 R. 48532 = 0					
(ii) 800mm x 600mm rectangular Bed Qty in d-1515 P ₂ No (23) = 476					
7710 = 82/00/1515 R. 30843 = 0					
(i) 600mm x 450mm rectangular Bed Qty in d-1515 P ₂ No (23) = 476					
5334 = 39/00/1515 R. 21338 = 0					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(2a) finishing and laying of hot asphalt - d- -d- Road Marking - d-UT in BT same - d-					
Qty of Hot Asphalt in BT in (22)					
= 170.00 m ²					
@ 8.50 = 1446.50 = Rs.					
(2b) finishing and laying of hot asphalt - d- Road Marking surface surface - d-UT Qty of Hot Asphalt in BT in (24)					
= 94.00 m ²					
@ 9.50 = 893.00 = Rs.					
(22) finishing and laying of hot asphalt - d- Road Marking surface surface - d-UT Qty of Hot Asphalt in BT in (24)					
= 85 m ²					
@ 74.9 = 6372.7 = Rs.					
(23) finishing and laying of hot asphalt - d- Road Marking surface surface - d-UT Qty of Hot Asphalt in BT in (13)					
= 45.46 m ²					
@ 285 = 12988.5 = Rs.					
24+25 finishing and laying of hot asphalt - d- Road Marking surface surface - d-UT Qty of Hot Asphalt in BT in (13)					
= 7.45 m ²					
@ 5499 = 40973.55 = Rs.					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(25) (20) Landung Phin					
Area Constant 120					
In Sect. Stricku - d. CI					
Qty. in T.M.B. P. 13					
= 48.71 m ²					
(26) 64 58 89/m ² R. 315904 = 00					
(26) Landung aed					
Landung R. ce. N. P. 3					
Lip. in Stricku - 600 m					
In H. of Sectu - d. CI					
Qty. in T.M.B. P. 14					
= 7.50 m					
(27) 1121 = 48/m ² R. 8411 = 00					
(31) Landung aed Landung					
R. ce. N. P. 3					
1000 m in H. of					
Ce. Sectu - d. CI					
Qty. in T.M.B. P. 14					
= 7.50 m					
(28) 4228 = 54/m ² R. 31714 = 00					
(27) Landung aed					
W. H. - d. CI					
Qty. in T.M.B. P. 14					
= 12.48 m					
(29) 108 = 98/m ² R. 1360 = 00					
(32) Landung aed					
W. H. - d. CI					
Qty. in T.M.B. P. 14					
= 20.64 m ²					
(30) 108 = 98/m ² R. 2249 = 00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(33) Lining road by way of R. & A. P. & B. of 30 mm dia. & 9 cores of New Road - 4011					
Qty in det. M.B. 876 (24)					
= 10.00 M					
@ 990 = 41/m - R. 39 616 = 10					
Total R. 8410510 = 10					
Less 10% of 8410510 = 841051 = 10					
Net R. 7569459 = 10					
Less for 10% of 7569459 = 756945.9 = 10					
Net R. 2089459 = 10					

22/01/21
J.C.

22/01/21 C&P
6/12/21

Material Statement on over all Bill

- ① Stone chips - 1128.00 M³
- ② Coarse Sand - 160.85 M³
- ③ Local soil - 156 M³
- ④ Stone m. ch. B - 464.74 M³
- ⑤ Emulsion - S.S. - 2.7616 M³
- ⑥ Emulsion - R.S. - 0.8934 M³
- ⑦ Bitumen - S. 90 - 6.1484 M³
- ⑧ Empty cement bags - 2470 bags
- ⑨ Empty bitumen drums - 57 drums

22/01/21
J.C.

22/01/21

Continuation